DOE/NRC/SDO 27 June 2001 Health Physics Society Standards Committee - *Attachment 9*

The HPSSC reviews and ballots proposed standards and membership and chair roles for N13, N42, and N43 working groups. N13 standards pertain to the selection, use, interpretation, application and accreditation of radiological protection instruments. N42 standards pertain to design and construction, design performance criteria, performance testing against design criteria, calibration, and field response testing of radiological protection instruments. N43 standards pertain to radiation protection aspects of radiation producing equipment used in industrial and non-medical research and development activities (excluding nuclear reactors). Details are listed in Attachments: A, Published Standards, B N13 Working Groups, and C, N43 Sub-Committee reports. The HPSSC has two committees for international standards. Ken Swinth chairs SC 2 "Radiation Protection." under the ASTM which administers ISO TC 85
Al Tschaeche chairs the pre-existing (to SC 2) HPSSC International Standards Subcommittee (ISSC) concerning coordination of US expert review of international, including other than ISO, health physics standards such as IEC, IAEA and other organizations

Review Of Current N13 Standards Activities – Joe Ring Joe has been working with regulators (NRC, DOE, EPA, CRCPD, OAS) to determine what standards are within their requirements. He hopes to have the first meeting with them in the fall. Ballot in accord with N13 ANSI Accredited Standard Operating Procedures: N13.48, "Radiation Protection Terminology. **Internal Dosimetry Section.** Jim Neton: N13.30 revision is underway; N13.39 has been approved; N13.25 will be balloted by N13. **External Dosimetry Section.** Bob Devine: N13.11 probably should have a revision working group established as soon as the current revision is approved and published. N13.32 revision PINS Form is currently being balloted. Considering revision of N13.41. N13.3 has been reassigned to this section
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Review of N42 RPI -- Jack Selby At least 6 different groups of standards are being revised. These standards are closely tied with the IEC standards being developed. With respect to the IEC, the following activities are currently being undertaken: B5 Aerosol Monitoring in the workplace, B7 whole body counting plus other large monitors, B8 electronic dosimetry, B13 effluent monitoring, B14 bordering monitoring. Four other topics of development of interest are 1)application of statistics—very difficult standards to understand; 2)temperature requirements; 3)emf; and 4) NRPB work regarding portable instrument battery tests. standard.

Review Of Current N43 Standards Activities – John Taschner The first N43 standard published by ANSI/HPS was N43.6 and there are currently several standards being prepared for publication

N13/N43 Standards Review and Publishing Schedule – Nancy Johnson
Approved or to be approved during June/July 2001 include:

- ANSI/HPS N43.8-2001, Revised American National Standard: "Classification of Industrial Ionizing Radiation Gauging Devices."
- ANSI/HPS N43.15-2001, New American National Standard: "Safe Design & Use of Self-Contained, Wet Source Storage Gamma Irradiators (Category III)."
- ANSI/HPS N13.11-2001, Revised American National Standard: "Personnel Dosimetry Performance – Criteria for Testing."
- ANSI/N13.39-2001, New American National Standard: "Design of Internal Dosimetry
- ANSI/HPS N13.49, New American National Standard: "Performance and Documentation of
- ANSI/HPS N43.2-2001, Revised American National Standard: "Radiation Safety for X-ray Diffraction and Fluorescence Analysis Equipment."
- ANSI/HPS N13.36, New American National Standard: "Core Training in Radiation Protection

DOE/NRC/SDO HPSSC Attachment A

HPS/ANSI STANDARDS PUBLISHED BY THE HEALTH PHYSICS SOCIETY

No. of Copies

_____ N13.1-1999 *Sampling and Monitoring Releases of Airborne Radioactive Substances From the Stacks and Ducts of Nuclear Facilities*
Price: $20.00 each (Published May 1999)

_____ N13.6-1999 *Practice for Occupational Radiation Exposure Records Systems*
Price: $10.00 each (Published April 2000)

_____ N13.11-1993 *Personnel Dosimetry Performance - Criteria for Testing*
Price: $10.00 each (Published July 1994)

_____ N13.12-1999 *Surface and Volume Radioactivity Standards for Clearance*
Price: $15.00 each (Published January 2000)

_____ N13.14-1994 *Internal Dosimetry Programs for Tritium Exposure - Minimum Requirements*
Price: $10.00 each (Published September 1994)

_____ N13.22-1995 *Bioassay Programs for Uranium*
Price: $15.00 each (Published May 1996)

_____ N13.30-1996 *Performance Criteria for Radiobioassay*
Price: $15.00 each (Published approx. July 1996)

_____ N13.32-1995 *Performance Testing of Extremity Dosimeters*
Price: $10.00 each (Published March 1996)

_____ N13.35-1999 *Specifications for the Bottle Manikin Absorption Phantom*
Price: $10.00 each (Published February 2000)

_____ N13.41-1997 *Criteria for Performing Multiple Dosimetry*
Price: $10.00 each (Published January 1997)

_____ N13.42-1997 *Internal Dosimetry for Mixed Fission Activation Products*
Price: $10.00 each (Published July 1997)

_____ N13.45-1998 *Incineration of Institutional Low-Level Radioactive Waste*
Price: $10.00 each (Published July 1998)

_____ N13.52-1999 *Personnel Neutron Dosimeters (Neutron Energies Less than 20 MeV)*
Price: $10.00 each (Published August 2000)

_____ N43.4-2000 *Classification of Radioactive Self-Luminous Light Sources*
Price: $10.00 each (Published January 2001)

_____ N43.6-1997 *Sealed Radioactive Sources - Classification*
Price: $10.00 each (Published August 1998)

_____ N43.10-2001 *Safe Design and Use of Panoramic, Wet Source Storage Gamma Irradiators (Category IV) and Dry Source Storage Gamma Irradiators (Category II)*
Price: $10.00 each (Published June 2001)

To purchase a standard(s), send a check in the appropriate amount made payable to HPS to:

HPS 1313 Dolley Madison Blvd., Suite 402 McLean, VA 22101

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__

DOE/NRC/SDO HPSSC Attachment B

N13 Working Groups

Standard[a]	Working Group Chairperson	Section	Title
N13.1-1999	John Glissmeyer	ENV	Sampling and Monitoring Releases of Airborne Radioactive Substances From the Stacks and Ducts of Nuclear Facilities
N13.2	Joe DiCicco	INT	Guide for Administrative Practices in Radiation Monitoring
N13.3	Bill Casson	EXT	Dosimetry for Criticality Accidents
N13.5	To be named	INS	Performance Specifications for Direct Reading and Indirect Reading Pocket Dosimeters for X- and Gamma-Radiation
N13.6-1999	Matt Lyon	EXT	Practice for Occupational Radiation Exposure Records Systems
N13.7	Craig Yoder	EXT	Criteria for Film Dosimeter Performance
N13.11-1993	Steve Sims	EXT	Criteria for Testing Personnel Dosimetry Performance (revision)
N13.12-1999	Bill Kennedy	CON	Surface and Volume Radioactivity Standards for Unconditional Clearance
N13.14-1994	Bill Inkret	INT	Internal Dosimetry Programs for Tritium Exposure-Minimum Requirements
N13.22-1995	Allen Brodsky	INT	Bioassay Programs for Uranium
N13.27	Jim Bogard	INS	Performance Specifications for Pocket-Sized Alarming Dosimeters/Ratemeters
N13.28	To be named	MED	Guide for Hospital Emergency Departments on Handling Radiation Accident Patients
N13.30-1996	Matt Lardy	INT	Performance Criteria for Radiobioassay
N13.32-1995	Ron Stafford	EXT	Performance Testing of Extremity Dosimeters
N13.35-1999	Tim Lynch	INT	Standard for the Bottle Manikin Absorption (BOMAB) Phantom
N13.37	Gladys Klemic	ENV	Performance Testing and Procedural Specifications for Thermoluminescent Dosimeters
N13.41-1997	Carol Berger	EXT	Criteria for Performing Multiple Dosimetry
N13.42-1997	Michael Williams	INT	Internal Dosimetry for Mixed Fission and Activation Products
N13.52	Erik Kearsley	EXT	Performance Specifications for Personnel Neutron Dosimeters
N13.45-1998	Dick Vetter	MED	Design and Performance Specification for Low Level Radiation Waste Incinerators
P/N 13.9	J. Stewart Bland	ENV	A Guide to Environmental Surveillance Around Nuclear Facilities
P/N13.25	Guthrie Miller	INT	Internal Dosimetry Techniques for Plutonium
P/N13.29	Marko Moscovitch	ENV	Criteria for Testing Environmental Dosimeter Performance
P/N13.31	Tom Buhl	CON	Guide for Assessing Radiation Doses from Plutonium and Americium in Soils

HPSSC Attachment B. Continued

Standard[a]	Working Group Chairperson	Section	Title
P/N13.33	Kjell Johansen	INS	Guide to Preparation of Environmental Radiation Surveillance and Monitoring Reports
P/N13.34	Phillip Jenkins	INS	Performance Specification for the Measurement of Radon in Indoor Air
P/N13.36	Paula Trinoskey	ENV	Core Training in Radiation Protection for Workers
P/N13.38	Lee McAtee	INS	How to Select and Use Neutron Radiation Instrumentation for Individual Dose Determinations
P/N13.39	Don Bihl	INT	Standard for Internal Dosimetry Programs
P/N13.40	Peter Olsen	INT	Standard for Thorax Phantoms used in Performing Radiological Measurements of Internally Deposited Radionuclides
P/N13.43	Dave Hickman	INT	Anthropomorphic Structures used in Performing Radiological Measurements of Internally Deposited Radionuclides
P/N13.44	Michael Mallet	INT	Thyroid Phantom used in Occupational Monitoring
P/N13.46	Dave Hintenlang	ENV	Guide for Radon/Radon Decay Product Testing in Real Estate Transactions for Residential Dwellings
P/N13.47	To be named	ENV	Environmental Pathway Modeling
P/N13.48	Les Aldrich	EXT	Radiation Protection Terminology
P/N13.49	Eric Abelquist	EXT	Performance and Documentation of Ionizing Radiation Surveys
P/N13.50	James Hylko	CON	Characterization of Radioactive Waste
P/N13.53	Jean-Claude Dehmel	ENV	Guide for Control and Release of Technically Enhanced Naturally Occurring Radioactive Materials (TENORM)
P/N13.59	Eric Abelquist	ENV	Characterization of Land Areas and Structures in Support of Decommissioning
P/N13.XX	To be named	(c)	(Proposed) Radon Mitigation
P/N13.54	Marilyn Stovall	MED	(Proposed) Fetal Radiation Dose Calculations
P/N13.55	Al Tschaeche	EXT	How to Estimate the Overall Accuracy in Occupational Dose Determinations
P/N13.56	To be named	INS	Procedures and Instrumentation for Characterizing Airborne Radioactivity in the Workplace
P/N13.57	To be named	MED	Performance Specifications for Clinical Xenon-133 Traps
P/N13.58	John Bliss	MED	Methods for Evaluating Radiation Protection Requirements for Handling Radioactive Material
P/N13.60	SY Chen	CON	Standards for Late-Phase Protection Actions Post-Nuclear Incident
P/N13.61	A. R. McFarland	ENV	Sampling and Monitoring Airborne Radioactive Substances from the Ambient Atmosphere
P/N13.62	Paula Trinoskey	ENV	Training and Qualifications of Health and Safety Technicians

Notes: (a) PINS form submitted for standards noted as P/N13.XX. Number of standard assigned upon approval.
(b) Working group chair to be named.
(c) Section not assigned yet.

DOE/NRC/SDO HPSSC Attachment C ANSI N43 APRIL 3, 2001

3.0 Sub-committee Reports.

3.1 N43.1 Radiological Safety in the Design and Operation of Particle Accelerators.

3.2 N43.2 Radiation Safety for X-ray Diffraction and Fluorescence Analysis Equipment.

3.3 N43.3 General Radiation Safety Standard for Installations Using Non-medical X-ray and Sealed Gamma-Ray Sources.

3.4 N43.4 Classification of Radioactive Self-Luminous Light Sources.

3.5 N43.5 Radiological Safety for the Design of Radiographic and Fluoroscopic Industrial X-ray Equipment.

3.6 N43.6 Sealed Radioactive Sources Classification.

3.7 N43.7 Safe Design & Use of Self-Contained, Dry Source Storage Gamma Irradiators (Category I).

3.8 N43.8 Classification of Industrial Ionizing Radiation Gauging Devices.

3.9 N43.9 Radiological Safety for the Design and Construction of Apparatus for Gamma Radiography

3.10 N43.10 Safe Design & Use of Panoramic, Wet Source Storage Gamma Irradiators (Category IV) and 3.12 N43.12 Safe Design & Use of Panoramic, Dry Source Storage Gamma Irradiators (Category II).

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3.11 N43.11 Safe Operating Practice for Industrial X-ray Radiographic Equipment.

3.12 N43.14 Manual of Good Safety Practice for Industrial Gamma Radiography.

3.13. N43.15 Safe Design & Use of self-Contained, Wet Source Storage Gamma Irradiators (Category III).

3.14 N43.16 Radiation Safety in the Use of Radionuclide Sources to Test Scrap Metal Radioactive Material Monitoring Systems.

3.15 N43.17 Radiation Safety of Personnel Security Screening Systems.